

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	mus adj musculus adj retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:04
L2	1	mus adj musculus adj retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:05
L3	0	Zack-donald-\$.in. and Hackman-abigail-\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:07
L4	0	Zack-donald.in. and Hackman-abigail.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11
L5	0	Zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11
L6	1	Zack-d.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
L7	0	zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
L8	13	zack-d\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12

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L9	0	L8 and Hackman-A\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
L10	0	L8 and Hackan-A\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
L11	3	L8 and Hackam-A\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:14
L12	63	retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:15
L13	1	L12 and neuronal adj cell adj death	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:15

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	63	retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27
L2	63	L1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27
L3	1	L1 and SAG	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27
L4	49882	sag	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27
S1	0	mus adj musculus adj retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:04
S2	1	mus adj musculus adj retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:05
S3	0	Zack-donald-\$.in. and Hackman-abigail-\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:07
S4	0	Zack-donald.in. and Hackman-abigail.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11

EAST Search History

S5	0	Zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11
S6	1	Zack-d.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
S7	0	zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
S8	13	zack-d\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
S9	0	S8 and Hackman-A\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
S10	0	S8 and Hackan-A\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
S11	3	S8 and Hackam-A\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:14
S12	63	retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27

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S13	1	S12 and neuronal adj cell adj death	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:15
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(FILE 'HOME' ENTERED AT 17:19:08 ON 05 APR 2006)

FILE 'BIOSIS, MEDLINE, SCISEARCH, EMBASE' ENTERED AT 17:19:58 ON 05 APR 2006

L1 0 SEA MUS MUSCULUS S ANTIGEN
L2 0 SEA MUS MUSCULUS RETINAL S ANTIGEN
L3 1133 SEA RETINAL S ANTIGEN
L4 5524 SEA SAG
L5 27 SEA L4 AND L3
 D 1-27 TI
 SET LINE 250
 SET DETAIL OFF
 SET LINE LOGIN
 SET DETAIL LOGIN
 D L5 ABS

SAG


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All: 1

Current Only: 1

Genes Genomes: 1

SNP GeneView: 1


☐ 1: **Sag** retinal S-antigen [*Mus musculus*]
GeneID: 20215 Primary source: [MGI:98227](#)

updated 03-Mar-2006

Summary


Official Symbol: Sag and **Name:** retinal S-antigen provided by [Mouse Genome Informatics](#)
Gene type: protein coding**Gene name:** Sag**Gene description:** retinal S-antigen**RefSeq status:** Validated**Organism:** *Mus musculus*
Lineage: *Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus*
Gene aliases: Irbp; A930001K18Rik

Entrez

Table

 Summary
 Genomic context
 Bibliography
 General protein
 Reference
 Related sequences
 Additional links

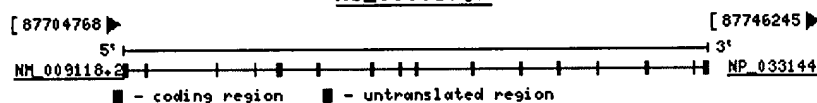
 NIH cDNA
 Conserved
 Genome
 GEO Profile
 HomoloGene
 Map Viewer
 Nucleotide
 Full text in PubMed
 Protein
 PubMed
 SNP
 SNP: Genes
 SNP: Gene
 Taxonomy
 UniSTS
 Ensembl
 Evidence
 Gene Expression
 KEGG
 MGC
 MGI
 ModelMaker
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 UniGene
 LinkOut

 Entrez
 F
 Sulf

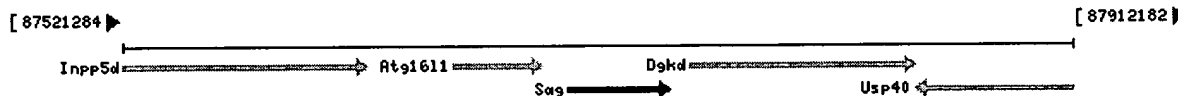
Genomic regions, transcripts, and products

[RefSeq below](#)

NC_000067.3



Genomic context

[See Sag in MapViewer](#)chromosome: 1; **Locations:** 1 D; 1 53.6 cM

Bibliography

Gene References into Function (GeneRIF): [Submit](#)[PubMed links](#)

General gene information



Markers

M24086(e-PCR) (Links: [UniSTS:124943](#))**D9Mit34.1**(e-PCR) (Links: [UniSTS:131903](#))

Alternate name: MGI:706037

M24086(e-PCR) (Links: [UniSTS:158822](#))

Alternate name: 121752

px-50g7(e-PCR) (Links: [UniSTS:257891](#))

GeneOntology

Provided by [MGI](#)

Function **Evidence**

[calcium ion binding](#) IEA

Process

[sensory perception](#) IEA

[signal transduction](#) IEA

[visual perception](#) IEA

Homology:

Human, Rat

[Map Viewer](#)

General protein information



Name: retinal S-antigen

NCBI Reference Sequences (RefSeq)



mRNA Sequence [NM_009118](#)

Source Sequence [AC102630](#), [M24086](#)

Product [NP_033144](#) retinal S-antigen

Conserved Domains (2) summary

[pfam02752](#): Arrestin_C; Arrestin (or S-antigen), C-terminal domain

Location: 200 - 361 Blast Score: 205

[pfam00339](#): Arrestin_N; Arrestin (or S-antigen), N-terminal domain

Location: 40 - 153 Blast Score: 202

Related Sequences



Nucleotide	Protein	Strain
mRNA AK044214	BAC31820	C57BL/6J
mRNA AK053278	BAC35331	C57BL/6J
mRNA AK143098	BAE25268	C57BL/6J
mRNA AK149299	BAE28798	C57BL/6J
mRNA AY651760	AAV54097	C57BL/6
mRNA BC016498	AAH16498	
mRNA BC026984	None	
mRNA M24086	AAA40090	C57BL/6J

Protein Accession Links

P20443 [GenPept](#) [UniProt](#)

Additional Links



Gene Expression Database (GXD) at MGI [MGI:98227](#)

UniGene [Mm.1276](#)